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# WCS1500 - Wobbe Control System for constant heating value

## Data Sheet EPE-147046


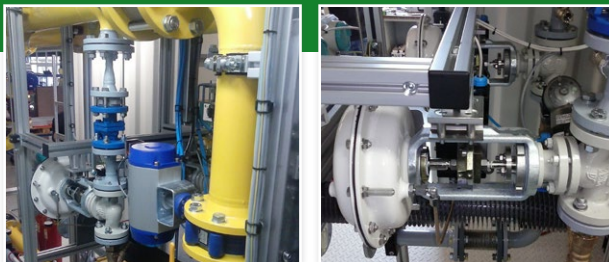


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GERMANY



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# WCS1500 - Wobbe Control System for constant heating value


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## Mixing facility of natural gas – for constant energy content

The plant is used to produce natural gas with consistent energy content by admixture of compressed air

### Description

The system is designed to keep the energy levels of natural gas on a constant level by adding compressed air. It is furthermore possible to enrich the natural gas with propane in this system. The volume flow measurement is conducted with turbine gas flowmeters with a measurement range from 125 to 1500 Nm<sup>3</sup>/h. The added air volume can vary depending on the Wobbe Index in a range between approx. 5 and 200 Nm<sup>3</sup>/h. The system consists of two completely redundant standard rails, one being conductive and the other in stand-by mode.

### Advantages

- ✓ The system can be set up outdoors
- ✓ Short control cycle duration
- ✓ Redundant execution of the control paths

### Technical data

<b>Wobbeindex [kWh/m<sup>3</sup>]</b>	10..15
Measurement uncertainty ±0.3% FS	
<b>Standard flow gas [Nm<sup>3</sup>/h]</b>	125..1500
Measurement uncertainty ±1% FS	
<b>Standard volume flow air [Nm<sup>3</sup>/h]</b>	5..250
Measurement uncertainty ±1% FS	
<b>Absolute Pressure Gas [mbar]</b>	0..5400
Measurement uncertainty ±0.2% FS	
<b>Highly compressed air [mbar]</b>	0..8000
Measurement uncertainty ±0.2% FS	
<b>Temperature gas [°C]</b>	-20..+60
Measurement uncertainty class A	
<b>Temperature air [°C]</b>	-20..+60
Measurement uncertainty class A	
<b>Control variable</b>	
<b>Wobbe-Index [kWh/m<sup>3</sup>]</b>	12,8..13,6
Step size ±0.5%	
<b>Dimensions</b>	
<b>Test system (L x W x H) [mm]</b>	6100 x 2500 x 2600

 Similar to Figure


### Standard Solutions Application examples:



#### Chemistry:

Wobbe Index control for glass melting



This is only an **example** interpretation and is of course individually adaptable to your needs.



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For special requirements we are happy to advise you. Subject to change. / EPE-147046 / Last update: 09/2016 / V01  
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